

IN THE CLAIMS:

Please cancel claims 1-12 without prejudice or disclaimer to the subject matter therein.

Please add new claims 13-21 as follows.

13. A signal transmission system comprising a transmission apparatus and a receiving apparatus, said transmission apparatus comprising:

- a modulator operable to modulate a data stream to produce a digital modulated signal, wherein the data stream has a plurality of frames with a frame sync data located at the beginning of each frame, and each frame has a plurality of data blocks following the frame sync data, and each data block has a block sync data located at the beginning of each block; and

- a transmitter operable to transmit the digital modulated signal;

said receiving apparatus comprising:

- a receiver operable to receive the digital modulated signal; and

- a demodulator operable to demodulate the received digital modulated signal to produce a demodulated signal according to the frame sync data and the block sync data.

14. A signal transmission apparatus comprising:

- a modulator operable to modulate a data stream to produce a digital modulated signal, wherein the data stream has a plurality of frames with a frame sync data located at the beginning of each frame, and each frame has a plurality of data blocks following the frame sync data, and each data block has a block sync data located at the beginning of each block; and

- a transmitter operable to transmit the digital modulated signal.

15. A signal receiving apparatus comprising:

- a receiver operable to receive a digital modulated signal, wherein said transmitted digital modulated signal includes a data stream, and wherein the data stream has a plurality of frames with a frame sync data located at the beginning of each frame, and each frame has a plurality of data blocks following the frame sync data, and each data block has a block sync data located at the beginning of each block; and

- a demodulator operable to demodulate the digital modulated signal to produce a demodulated signal according to the frame sync data and the block sync data.

16. A signal receiving apparatus according to claim 15, further comprising:
a decoder operable to decode the demodulated signal to a video signal.

17. A signal receiving apparatus according to claim 16, further comprising:
an output terminal operable to output the video signal.

18. A signal receiving apparatus according to claim 16, further comprising:
a display device operable to display the video signal.

19. A signal transmission and receiving method comprising a transmission method and a receiving method,

said transmission method comprising:

- modulating a data stream to produce a digital modulated signal, wherein the data stream has a plurality of frames with a frame sync data located at the beginning of each frame, and each frame has a plurality of data blocks following the frame sync data, and each data block has a block sync data located at the beginning of each block; and

- transmitting the digital modulated signal;

said receiving method comprising:

- receiving the digital modulated signal; and

- demodulating the received digital modulated signal to produce a demodulated signal according to the frame sync data and the block sync data.

20. A signal transmission method comprising:

- modulating a data stream to produce a digital modulated signal, wherein the data stream has a plurality of frames with a frame sync data located at the beginning of each frame, and each frame

has a plurality of data blocks following the frame sync data, and each data block has a block sync data located at the beginning of each block; and

- transmitting the digital modulated signal.

21. A signal receiving method comprising:

- receiving a digital modulated signal, wherein said transmitted digital modulated signal includes a data stream, wherein the data stream has a plurality of frames with a frame sync data located at the beginning of each frame, and each frame has a plurality of data blocks following the frame sync data, and each data block has a block sync data located at the beginning of each block; and

- demodulating the digital modulated signal to produce a demodulated signal according to the frame sync data and the block sync data.